UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/820,966	03/30/2001	Lev Brouk	GRCN001/01US	3909

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EXAMINER
TRUONG, LAN DAI T

ART UNIT	PAPER NUMBER
2152	

DATE MAILED: 07/03/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

		Application No.	Applicant(s)
Office Action Summary		09/820,966	BROUK ET AL.
		Examiner	Art Unit
		Lan-Dai Thi Truong	2152

-- *The MAILING DATE of this communication appears on the cover sheet with the correspondence address* --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>03</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *21 March 2006*.

2a)☐ This action is **FINAL**.   2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-83* is/are pending in the application.

    4a) Of the above claim(s) *2, 11-16; 80-83* is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1, 3-10; 16-79* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *30 March 2001* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All   b)☐ Some * c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☒ Notice of References Cited (PTO-892)

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3)☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date *04/17/06*.

4)☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.

5)☐ Notice of Informal Patent Application (PTO-152)

6)☐ Other: _____.

DETAILED ACTION

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in

37 CFR 1.17(e), was filed in this application after final rejection. Since this application is

eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e)

has been timely paid, the finality of the previous Office action has been withdrawn pursuant to

37 CFR 1.114. Applicant's submission filed on 03/21/2006 has been entered.

2. This action is response to communications: application, filed on 03/30/2001;

amendment filed 03/21/2006. Claims 1-83 are pending; claims 2, 11-16, 80-83 are cancelled

Response to Arguments

3. The applicant's arguments file on 03/21/2006 have fully considered; but they are not

persuasive for the reasons discloses below. The previous rejection is retained

4. Regarding to applicant's indication with respect to adapters do not change the content

of a message, as recited in claim 1, is not persuasive; applicant's discloses, in amended claim 1,

the in-transit server performs altering the content of message to ensure that the message has the

proper features required by the recipients service; However, applicant does provide

information/descriptions supports the means of "features" in the specification. In view of

Examiner, "features" has broader mean than "format," and the mean of "feature" can imply on

the mean "format"

5. Regarding to applicant's indication with respect to having corrected claim 1 to recited

"...receiving an application level..." Examiner confirms with applicant that the phase "...

receiving a an application ..." has not been corrected

Drawing objections

Figure 1 is objected based on the following reasons: in the specification, applicant

discloses "a message interchange network 150 that enables SMEs 110-m, webware ASPs 120-n,

and in-transit processors (ITPs) 130-p to connect to one another," [1019]; however, there is not

existing of element "150" numbered for "message interchange network" in figure 1.

Claim rejections-35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the
subject matter which the applicant regards as his invention.

Claims 1 and 51 recite the limitation "determining a route path for delivery of said

message to one or more recipient services" in (page 2, lines 12; page 7, lines 14). There is

insufficient antecedent basis for this limitation in the claim.

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making
and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it
pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode
contemplated by the inventor of carrying out his invention.

Claims 1, 32, 51, 52, 63, 64 are rejected under 35 U.S.C. 112, first paragraph, as failing

to comply with the enablement requirement. The claim(s) contains subject matter which such as

"**application-level message**" was not described in the specification in such a way as to enable

one skilled in the art to which it pertains, or with which it is most nearly connected, to make

and/or use the invention.

Claims 1, 51 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with

the enablement requirement. The claim(s) contains subject matter which such as "**the features**

required by the recipient service" was not described in the specification in such a way as to

enable one skilled in the art to which it pertains, or with which it is most nearly connected, to

make and/or use the invention.

Claims 52, 63 and 64 are rejected under 35 U.S.C. 112, first paragraph, as failing to

comply with the enablement requirement. The claim(s) contains subject matter which such as

"**...according to properties and permissions associated** with said service" was not described

in the specification in such a way as to enable one skilled in the art to which it pertains, or with

which it is most nearly connected, to make and/or use the invention.

Claim rejections-35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the
basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the

United States before the invention thereof by the applicant for patent, or on an international application by another

who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention

thereof by the applicant for patent.

Claims 1, 4, 6-8, 10, 17-30, 32-74, 76-79 are rejected under 35 U.S.C. 102(e) as being anticipated by Ghoneimy et al. (hereinafter Ghoneimy), US 2004-0078373

Regarding to claim 1:

Ghoneimy discloses a method, which can be implemented in a computer hardware or software code for routing application level messages from one or more sending services to one or more recipient, services across a message interchange network (Ghoneimy discloses a workflow system uses an open architecture to support multiple platforms. The workflow system supports for automating collaborative processes of intercomany processes; the workflow system includes workflow engine supports interactions between users and components: [0028]-[0035]), comprising:

receiving a an application level message from a sending service, said application level message including a header element and at least one of a body element including one or more documents that a sending service is sending to a recipient service and an attachment including one or more documents that a sending service is sending to a recipient service (As disclosure above, Ghoneimy discloses a workflow system supports collaborative processes of intercompany processes such as sharing ideas, processing requests for approval...etc. The workflow system includes workflow engine supports interactions between users and components. Although, Ghoneimy does not explicitly discloses message including a header elements and at least one of body element; however, It would have been obvious to one of ordinary skill in the art to understand that the sending message should including header and body of message: Fig 14, 16; [0009]; [0072]; [0116]; [0171]);

determining a route path for delivery for said message to one or more recipient services, said

route path including one or more in-transit services: (Ghoneimy discloses "workflow engine"

which is shared functionality with "in-transit service;" the workflow engine performs multiple

tasks including directory services which supports for communications of multiple users/

components: [0028]; [0031]) wherein said determining being based on one or more of a

reference to a service identified in said header element (destination address on the email tells the

email system how to route to destination), a routing script defined by a sending service ([0187]),

a routing script defined by a recipient service, and a routing script defined by an in-transit service

([0085]; [0093]); and

delivering said message to an in-transit service in said route path, wherein said in-transit

service performs an identifiable operation on said message as said message travels from a

sending service to a recipient service, the identifiable operation altering the content of the

message to ensure that the message has the proper format for the recipient service ([0039-0045],

Ghoneimy discloses the workflow engine including adapters acts as a converter to integrate

different vendor of information systems together).

Regarding to claim 4:

Ghoneimy discloses a method as discuss in claim 1, which includes one or more documents

in said body element and said one or more documents in said attachment can accommodate any

type of data (Fig 14, attachment of many different files)

Regarding to claim 6:

Ghoneimy discloses a method as discuss in claim 4, which includes said data includes text

data (Fig 14, attachment of many different files)

Regarding to claim 7:

Ghoneimy discloses a method as discuss in claim 4, which includes said data

Includes binary data (Fig 14, attachment of many different files)

Regarding to claim 8:

Ghoneimy discloses a method as discuss in claim 1, which includes routing ([0093]; [0085])

and route trace elements ([0029];[0104])

Regarding to claim 10:

Ghoneimy discloses a method as discuss in claim 1, which includes receiving includes

receiving said message from a party that sends said message on behalf of a sender (the messages

are sent to the work flow system first prior to sending by the work flow system to the receiver,

see [0035]; [0072])

Regarding to claim 17:

Ghoneimy discloses a method as discuss in claim 1, which includes the message routing

method of claim 1, wherein said determining is recursive ([0085]; [0093])

Regarding to claims 18 and 30:

Ghoneimy discloses a method as discuss in claim 1, which includes the message routing

method of claim 1, wherein said determining occurs prior to physical delivery of said message

([0085]; [0093], wherein the routing scripts are executed prior to delivery of actual message to

the destination)

Regarding to claim 19:

Ghoneimy discloses a method as discuss in claim 1, which includes determining occurs

dynamically during logical and physical delivery of said message ([0085])

Regarding to claim 20:

Ghoneimy discloses a method as discuss in claim 1, which includes a routing script

defines a procedure that determines an existence of one or more attributes of the message ([0088;

[0090])

Regarding to claim 21:

Ghoneimy discloses a method as discuss in claim 1, which includes the message routing

method of claim 1, wherein a routing script defines a procedure based on pattern matching

([0090])

Regarding to claim 22:

Ghoneimy discloses a method as discuss in claim 1, which includes wherein a routing

script defines a procedure that compares one or more attributes of a message to a reference value

([0090]-[0093])

Regarding to claim 23:

Ghoneimy discloses a method as discuss in claim 1, which includes the message routing

method of claim 1, wherein a routing script is based on a routing rule, said routing rule including

a condition and one or more actions ([0089]-[0093])

Regarding to claim 24:

Ghoneimy discloses a method as discuss in claim 23, which includes the message routing

method of claim 23, wherein said condition is one of an equals, not-equals, equals-one-of,

less-than, greater-than, and exists operators ([0084])

Regarding to claim 25:

Ghoneimy discloses a method as discuss in claim 23, which includes condition is a combination of one or more conditions ([0089-0093])

Regarding to claim 26:

Ghoneimy discloses a method as discuss in claim 25, which includes conditions are combined using one or more of an AND, OR, XOR, and NOT operators ([0091])

Regarding to claim 27:

Ghoneimy discloses a method as discuss in claim 1, which includes delivering includes pushing said message to said in-transit service ([0171]; [0183])

Regarding to claim 28:

Ghoneimy discloses a method as discuss in claim 1, which includes delivering includes delivering said message upon a polling action by said in-transit service ([0102]; [0107]; [0116]; wherein the email clients are thin clients, the forms, GUI and the logic exist on the server side)

Regarding to claim 29:

Ghoneimy discloses a method as discuss in claim 1, which includes delivering includes delivering said message to said in-transit service for one of a data transformation operation, an enrichment operation, a cross-reference id mapping operation, a filtering operation, and a credit scoring operation ([0039]; [0101])

Regarding to claims 32-48:

Those claims are rejected for the same reasons as rejections to claims 1, 19, 17-26

Regarding to claim 49:

Ghoneimy discloses a method as discuss in claim 32, which includes said message

routing network provides a transport level messaging service ([0035])

Regarding to claims 50-51:

Those claims are rejected for the same reasons as rejection to claims 18 and 1

Regarding to claim 52:

Ghoneimy teaches a message routing network method, comprising:

receiving a registration request from a service for inclusion in a message routing

network, said message routing network being built on an open platform overlaying a public

network, said service being operative to provide a data operation according to properties and

permission associated with said service ([0048]; [0104]). As for the remainder of claim 52, the

remainder of claim 52 are rejected for the same reasons as rejection to combination of claims 1

and 2 above respectively

Regarding to claim 53:

Ghoneimy discloses a method as discuss in claim 52, which includes service provides a

data transformation service ([0101])

Regarding to claim 54:

Ghoneimy discloses a method as discuss in claim 52, which includes service provides a

data enrichment service ([0101])

Regarding to claim 55:

Ghoneimy discloses a method as discuss in claim 52, which includes service provides a

cross-reference service ([0049]; [0204])

Regarding to claim 56:

This claim is rejected for the same reasons as rejection to claim 29 above.

Regarding to claim 57:

Ghoneimy discloses a method as discuss in claim 52, which includes service provides a credit scoring service ([0050]; [0059])

Regarding to claim 58:

Ghoneimy discloses a method as discuss in claim 52, which includes a service is selected from said directory of services by a sending service ([0035-0036])

Regarding to claim 59:

Ghoneimy discloses a method as discuss in claim 52, which includes a service is selected from said directory of services by a recipient service ([0036]; [0039]; [0033]; [0031])

Regarding to claim 60:

Ghoneimy discloses a method as discuss in claim 52, which includes a service is selected from said directory of service engines by an in-transit service ([0031]; [0032])

Regarding to claim 61:

The claim is rejected for the same reasons as rejection to claim 16 above. Further, the portion of claim 61 which states "said script mapping an invocation of a first service to an invocation of a second service, wherein contexts of said invocations are managed by said message routing network", is taught by Ghoneimy on the following sections ([0088]; [0173-0174])

Regarding to claim 62:

This claim is rejected for the same reasons as rejection to claim 1 above

Regarding to claim 63:

This claim is rejected for the same reasons as rejection to combination of claim 1

Regarding to claim 64:

Ghoneimy teaches a message routing system, comprising: a message routing network having an interface that enables a plurality of services to post messages to and receive messages from said message routing network; said message routing network built on an open platform overlaying a public network, wherein at least some of the one or more sending services and the one ore more recipient services are managed by different organizational entities, and wherein each sending service and recipient service is accessible according to properties and permissions associated with each of the sending services and recipients services ([0035]; [0093]), at least a portion of said plurality of services providing a menu of data operations that can he selectively applied to a message traversing said message routing network ([0101])

Regarding to claim 65:

This claim is rejected for the same reasons as rejection to claim 49 above.

Regarding to claim 66:

Ghoneimy discloses a method as discuss in claim 65, which includes said message routing network is implemented on a public network ([0030]; [0059])

Regarding to claims 67-74, 76-77:

Those claims are rejected for the same reasons as rejection to claims 53-55, 29, 57-60, 1, and 61 above respectively

Regarding to claim 78:

This claim is rejected far the same reasons as rejection to combination of claim 1

Regarding to claim 79:

This claim is rejected far the same reasons as rejection to claim 58 above

Claim rejections-35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or descry bed as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3, 5, 9 and 75 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ghoneimy et al. (hereinafter Ghoneimy), US 2, 004-0078373

Regarding claims 3 and 5:

Although Ghoneimy doesn't specifically disclose the type of language used to implement the messaging system, such limitations are merely a matter of design choice and would have been obvious in system of Ghoneimy. Ghoneimy teaches routing of messages across the network through the utilization of routing scripts. The limitations in claims 3 and 5 do not define a patentably distinct invention over that in Ghoneimy since both the invention as a whole and Ghoneimy are directed to routing of the incoming messages in an in-transit service. The language of implementation is inconsequential for the invention as a whole arid presents no new

or unexpected results, so long as the message is analyzed and monitored by services. Therefore,

to have the software platform implemented in XML in Ghoneimy would have been a matter of

obvious design choice to one of ordinary skill in the art, XML is dynamically scalable, thus

provide simplistic implementations adhering to user's needs

Regarding claims 9 and 75:

Ghoneimy does not explicitly teaches the message routing system of claim 64, wherein

said interface uses the simple object access protocol (SOAP). However, the concept and

advantages of providing for SOAP is well known and expected in the art. It would have been

obvious to one of ordinary skill in the art to include SOAP with Ghoneimy because it would

provide for another means of communication between nodes on the network in a extensible mark

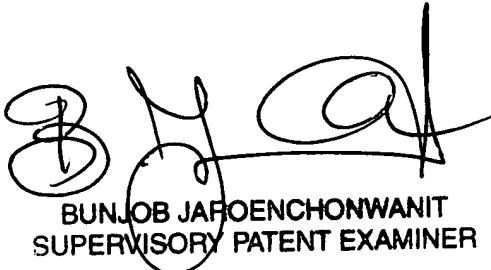up language format.

Conclusions

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Lan-Dai Thi Truong whose telephone number is 571-272-7959.

The examiner can normally be reached on Monday- Friday from 8:30am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Bunjob A. Jaroenchonwanit can be reached on 571-272-3913. The fax phone

number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

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information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

LDT
06/24/2006

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SUPERVISORY PATENT EXAMINER